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09/809,025	03/16/2001	Jeffrey Lange	26859.102-US01	26859.102-US01 5585	
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Michelle M. Carniaux, Esq KENYON & KENYON			DASS, H.	DASS, HARISH T	
One Broadway			ART UNIT	PAPER NUMBER	
New York New York, NY 10004			3628		

DATE MAILED: 10/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Carminar Hardish T. Dasis 3628		Application No.	Applicant(s)			
Harfan T. Dass 3528 Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1 38(a). In no search between, may a reply be treely a specified above, the makening date of this communication IN O period for repty is specified above, the makening date of this communication IN O period for repty is specified above, the makening date of this communication IN O period for repty is specified above, the makening date of this communication IN O period for repty is specified above, the makening date of this communication, and shall shall shall shall be above. The makening date of this communication, and shall shall be aboved by the first like their three medium shall be the making date of this communication, aven if finely fleet, may induce any induce any induce any induced and induced any ind		09/809,025	LANGE, JEFFREY			
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1) Responsive to communication(s) filed on 16 March 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Craftsperson's Patent Drawing Review (PTO-948) 3) Information Didecoure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Sinformation Didecoure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Sinformation Didecoure State	WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE.	N. nely filed the mailling date of this communication. D (35 U.S.C. § 133).			
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-2, 11-12 and 21-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Particularly: the word "substantially", in the flowing claims:

Claim 1 page 228 line 16,

Claim 2 page 229 line 11,

Claim 11 page 235 line 10.

Claim 12 page 236 line 12,

Claim 21 page 243 line 22, and

Claim 22 page 244 line 19 makes the limitation vague. Remove or make necessary correction.

Claims 1-22 recites the limitation "termination criteria" in following listed claims.

There is insufficient antecedent basis for this limitation in the claims.

Claim 1 page 228 line 5,

Claim 2 page 229 line 1,

Claim 3 page 229 line 18,

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Claim 4 page 230 line 10,

Claim 5 page 231 line 1,

Claim 6 page 231 line 16,

Claim 7 page 232 line 10,

Claim 9 page 233 line 14,

Claim 11 page 234 line 23,

Claim 12 page 236 line 1,

Claim 13 page 237 line 3,

Claim 14 page 237 line 1,

Claim 15 page 238 line 24,

Claim 16 page 239 line 21,

Claim 17 page 240 line 17,

Claim 19 page 2429 line 4,

Claim 21 page 243 line 21, and

Claim 22 page 244 line 18, where "terminating criteria", which is different than "predetermined terminating criteria"

Claims 14-16 recites the limitation "computing" in the following listed claims.

There is insufficient antecedent basis for this limitation in the claims.

Claim 14 page 238 line 10,

Claim 15 page 239 line 18, and

Claim 16 page 239 line 23, where "computing", is different than compute.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave

Congress the power to "[p]romote the progress of science and useful arts, by securing
for limited times to authors and inventors the exclusive right to their respective writings
and discoveries". In carrying out this power, Congress authorized under 35 U.S.C.
§101 a grant of a patent to "[w]hoever invents or discovers any new and useful process,
machine, manufacture, or composition or matter, or any new and useful improvement
thereof." Therefore, a fundamental premise is that a patent is a statutorily created
vehicle for Congress to confer an exclusive right to the inventors for "inventions" that
promote the progress of "science and the useful arts". The phrase "technological arts"
has been created and used by the courts to offer another view of the term "useful arts".
See In re Musgrave, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of
whether an invention is eligible for a patent is to determine if the invention is within the
"technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable

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subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See Diamond v. Diehr, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See State Street Bank & Trust Co. v. Signature Financial Group, Inc. 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See In re Toma, 197 USPQ (BNA) 852 (CCPA 1978). In Toma, the court held that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to Gottschalk v. Benson, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. In re Toma at 857.

In Toma, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The

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court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in State Street Bank & Trust Co. v. Signature Financial Group, Inc. never addressed this prong of the test. In State Street Bank & Trust Co., the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather. statutory subject matter should be based on whether the operation produces a "useful." concrete and tangible result". See State Street Bank & Trust Co. at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under °101, but rather under §§102, 103 and 112." See State Street Bank & Trust Co. at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, State Street abolished the Freeman-Walter-Abele test used in Toma. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in Toma because the invention in State Street (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the Toma test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a

§101 rejection finding the claimed invention to be non-statutory. See Ex parte Bowman, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the present application, Claims 1-10 have no connection to the technological arts. None of the steps indicate any connection to a computer or technology.

Therefore, the claims are directed towards non-statutory subject matter. To overcome this rejection the Examiner recommends that Applicant amend the claims to better clarify which of the steps are being performed within the technological arts; for example: "computer is used to compute the probability".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harish T. Dass whose telephone number is 571-272-6793. The examiner can normally be reached on 8:00 AM to 4:50 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harish T Dass Examiner Art Unit 3628

9/22/05

FRANTZY PONY!
PRIMARY EXAMINER

AU 3628